PATENT COOPERATION TREAL!

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220			
CIPH-0014	ACTION	as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/y	ear) (Earliest) Priority Date (day/month/year)			
PCT/US2005/000548	07/01/2005	16/01/2004			
Applicant					
CIPHERGEN BIOSYSTEMS, INC.					
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This International Search Report consists	of a total of sheet:	s.			
X It is also accompanied by	ed by a copy of each prior art document cited in this report.				
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the					
	ess otherwise indicated under this item				
The international states this Authority (Rul	search was carried out on the basis of a e 23.1(b)).	a translation of the international application furnished to			
b. X With regard to any nucle d	otide and/or amino acid sequence dis	sclosed in the international application, see Box No. I.			
2. X Certain claims were four	und unsearchable (See Box II).				
3. Unity of invention is lack	king (see Box III).				
4. With regard to the title ,					
X the text is approved as sui	bmitted by the applicant.				
the text has been establish	ned by this Authority to read as follows:	:			
5. With regard to the abstract,					
X the text is approved as sut					
the text has been establish may, within one month from	ned, according to Rule 38.2(b), by this in the date of mailing of this internation.	Authority as it appears in Box No. IV. The applicant al search report, submit comments to this Authority.			
6. With regard to the drawings,					
a. the figure of the drawings to be pu	a. the figure of the drawings to be published with the abstract is Figure No				
as suggested by the					
=	Authority, because the applicant failed				
	 Authority, because this figure better clepublished with the abstract. 	naracterizes the invention.			
J No.116 of the figures is to be	pasioned mar are apprace				

International application No.

PCT/US2005/000548

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format in computer readable form
	c.	contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Additi	ional comments:

International Application No PCT/US2005/000548

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N33/68						
According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01N						
Documenta	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)			
EPO-Internal, WPI Data, BIOSIS, EMBASE						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.			
X	LABUGGER R ET AL: "Combining after chromatography and mass spectrome investigate disease-induced trope modifications in biological sample CLINICAL CHEMISTRY, vol. 48, no. 6 Supplement, June 2002 (2002-06), page A95, XF & 54TH ANNUAL MEETING OF THE AMER ASSOCIATION FOR CLINICAL CHEMISTR ORLANDO, FLORIDA, USA; JULY 28-AL 2002 ISSN: 0009-9147 the whole document	etry to onin les" P001206172 RICAN RY (AACC);	1-64			
X Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	n annex.			
'A' docume consid 'E' earlier of filing d 'L' docume which i citation 'O' docume other n 'P' docume later th	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered novel or cannot be considered novel or cannot be considered to involve an invention canno		the application but cory underlying the laimed invention be considered to current is taken alone laimed invention rentive step when the re other such docusis to a person skilled			
	actual completion of the international search	Date of mailing of the international sear	ch report			
	May 2005		30/06/2005			
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer Pellegrini, P						

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nternational Application No
PCT/US2005/000548

C/Continue	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	FC170320037000548
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Odlegory	onation of document, with indication, where appropriate, of the relevant passages	Herevant to claim No.
X	HEESCHEN CHRISTOPHER ET AL: "Analytical and diagnostic performance of troponin assays in patients suspicious for acute coronary syndromes" CLINICAL BIOCHEMISTRY, vol. 33, no. 5, July 2000 (2000-07), pages 359-368, XP002326958 ISSN: 0009-9120 abstract page 360, column 2, paragraph 3 - page 361, column 1, paragraph 1	1-64
X	SCIRICA BENJAMIN M ET AL: "Troponins in acute coronary syndromes." SEMINARS IN VASCULAR MEDICINE. NOV 2003, vol. 3, no. 4, November 2003 (2003-11), pages 363-374, XP009047291 ISSN: 1528-9648 the whole document	1-64

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IAP11 Rec'd PCT/PTO 14 JUL 2006

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 65-67

Claims 65-67 are unclear (article 6 PCT), as the modified troponin, the troponin interactor and the anti-troponin antibody interactor are characterized only in terms of generic modifications such as splice variants, post-translational modifications and enzymatic degradation (claim 66), and in terms of their mass-to-charge ratio. Such characterization does not allow to identify any essential technical features of the claimed entities, in particular amino acidic sequence and additional structural/chemical information of the claimed polypeptides or compounds. For this reason, no search has been carried out for claims 65-67.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/US2005/000548

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 65-67 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.